ESS/QC/110V-Y3/2021-22- C1

Date: 21-02-2022

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	163 min	Shall not be less than 30 min
2	Final setting time	270 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.17%	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.09mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.78 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work Ambavhavani Layout 1st Cross Rd Ch:0.00m to 30.00m.

For ESS ESS BUILDERS

Authorized Signatory

#6,1st Main, PavamanaNagara, Kothanurdinne MainRoad, JPNagar 9th Phase, Bangalore-560078

ESS/QC/110V-Y3/2021-22- C2 Date: 21-02-2022

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**158 min**	Shall not be less than 30 min
2	Final setting time	**265 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.13 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**28.55 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work Ambavhavani Layout 2nd Cross Rd Ch:0.00m to 21.00m.

ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

For ESS ESS BUILDERS

Authorized Signatory

#6,1st Main, PavamanaNagara, Kothanurdinne MainRoad, JPNagar 8th Phase, Bangalore-560078 E-mail: essdhanu12@gmail.com

ESS/QC/110V-Y3/2021-22-PCC2 **Date: 21-02-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	62.35	0 -20	30- 70
10mm	28.15	0 -5	10- 35
4.75mm	3.75	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.20	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	80.35	60-95	75-100	85-100	
01.18	72.10	30-70	55-90	75-100	
600.mic	45.55	15-34	35-59	60-79	
300.mic	21.15	5-20	8-30	12-40	
150.mic	6.40	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work Ambavhavani Layout 2nd Cross Rd Ch:0.00m to 21.00m.

For ESS ESS BUILDERS

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#6,1st Main, PavamanaNagara, Kothanurdinne MainRoad, JPNagar 8th Phase, Bangalore-560078 E-mail:

ESS/QC/110V-Y3/2021-22-PCC3 Date: 22-02-2022

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	65.75	0 -20	30- 70
10mm	32.50	0 -5	10- 35
4.75mm	3.85	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	95.20	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	83.05	60-95	75-100	85-100	
01.18	74.30	30-70	55-90	75-100	
600.mic	42.80	15-34	35-59	60-79	
300.mic	24.45	5-20	8-30	12-40	
150.mic	7.20	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work Ambavhavani Layout 3rd Cross Rd Ch:0.00m to 29.70m.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬ.ಬ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

For ESS ESS BUILDERS

Authorized Signatory

ESS/QC/110V-Y3/2021-22-C4 Date: 22-02-2022

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**162 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.12%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.07 mm**	Shall not be more than 10 mm
5	Compressive strength d) 3 days (average of three results)	**28.75 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work Ambavhavani Layout 5th Cross Rd Ch: 30.00m to 40.80m.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಜಿ.ಬಿ.ಎ.ಪಿ. ಬೆಂಗಳೂರು-106

For ESS ESS BUILDERS

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ESS/QC/110V-Y3/2021-22-C5 Date: 24-02-2022

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**155 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.11 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06 mm**	Shall not be more than 10 mm
5	Compressive strength e) 3 days (average of three results)	**28.95 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work Ambavhavani Layout Cross Rd-2 Ch: 0.00m to 30.00m.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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ESS/QC/110V-Y3/2021-22-C6 Date: 24-02-2022

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**161 min**	Shall not be less than 30 min
2	Final setting time	**275min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.15 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.03 mm**	Shall not be more than 10 mm
5	Compressive strength f) 3 days (average of three results)	**28.45 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work Ambavhavani Layout Cross Rd-4 from end Ch: 22.20m to 52.80m.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರ ಕಛೇರಿ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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ESS/QC/110V-Y3/2021-22- PCC7 **Date: 25-02-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

3. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	61.20	0 -20	30- 70
10mm	29.55	0 -5	10- 35
4.75mm	4.15	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.70	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	80.25	60-95	75-100	85-100	
01.18	73.05	30-70	55-90	75-100	
600.mic	46.80	15-34	35-59	60-79	
300.mic	24.15	5-20	8-30	12-40	
150.mic	6.80	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work Ambavhavani Layout Cross Rd-5 Ch: 30.00m to 38.40m.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ, ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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ESS/QC/110V-Y3/2021-22- C8 Date: 25-02-2022

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**158 min**	Shall not be less than 30 min
2	Final setting time	**280 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.16%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.11mm**	Shall not be more than 10 mm
5	Compressive strength h) 3 days (average of three results)	**28.75 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work Ambavhavani Layout 6th Cross Rd Ch: 35.40m to 65.40m.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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ESS/QC/110V-Y3/2021-22- C9 Date: 26-02-2022

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**162 min**	Shall not be less than 30 min
2	Final setting time	**265 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.14 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.09 mm**	Shall not be more than 10 mm
5	Compressive strength i) 3 days (average of three results)	**28.55 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work Ambavhavani Layout 12th Cross Rd Ch: 30.00m to 60.00m.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬ ಬ ಪಾ ಪ, ಬೆಂಗಳೂರು-106

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ESS/QC/110V-Y3/2021-22-CE1 **Date: 23-02-2022**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**164min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.89 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.92 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.55 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work Avaikya Layout Cross Rd-1 Ch: 15.00m to 29.50m.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

For ESS ESS BUILDERS

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#6,1st Main, PavamanaNagara, Kothanurdinne MainRoad, JPNagar 8th Phase, Bangalore-560078 E-mail: essdhanu13@gmail.com

ESS/QC/110V-Y3/2021-22-CA1 **Date: 23-02-2022**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.25	85-100	90 - 100
10 mm	44.60	0 - 20	25 - 55
4.75 mm	3.95	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS 383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	25.46%	Not to exceed 25 %
2.	Crushing value	28.74%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

The result of the materials tested meets the standards and hence can be used for the work Avaikya Layout Cross Rd-2 Ch: 12.20m to 25.20m.

For ESS ESS BUILDERS

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ESS/QC/110V-Y3/2021-22-CB2

Date: 03-03-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	24-02-22	03-03-22	07	22500	380	16.89	16.81
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	385	17.11	

The result of the materials tested meets the standards and hence can be used for the work Avaikya Layout Cross Rd-4 Ch: 30.00m to 42.40m.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

#6,1st Main, PavamanaNagara, Kothanurdinne MainRoad, JPNagar 8th Phase, Bangalore-560078 E-mail: essdhanu13@gmail.com

ESS/QC/110V-Y3/2021-22-CB8 **Date: 07-03-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-02-22	07-03-22	07	22500	370	16.44	**16.22**
	002	"	"	"	"	365	16.22	
	003	"	"	"	"	360	16.00	

The result of the materials tested meets the standards and hence can be used for the work Avaikya Layout Cross Rd-10 Ch: 21.50m to 48.00m .

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ESS/QC/110V-Y3/2021-22-CB13 **Date: 11-03-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	04-03-22	11-03-22	07	22500	365	16.22	16.15
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	355	15.78	

The result of the materials tested meets the standards and hence can be used for the work Sai Nagara 2nd Phase 10th Cross Rd Ch: 14.30m to 23.10m.

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#6,1st Main, PavamanaNagara, Kothanurdinne MainRoad, JPNagar 8th Phase, Bangalore-560078 E-mail: essdhanu13@gmail.com

ESS/QC/110V-Y3/2021-22-CB17 **Date: 14-03-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	07-03-22	14-03-22	07	22500	360	16.00	16.07
	002	"	"	"	"	355	15.78	
	003	"	"	"	"	370	16.44	

The result of the materials tested meets the standards and hence can be used for the work Sai Nagara 2nd Phase 2nd Cross Rd Ch: 30.00m to 60.00m.

For ESS ESS BUILDERS

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#6,1st Main, PavamanaNagara, Kothanurdinne MainRoad, JPNagar 8th Phase, Bangalore-560078 E-mail: essdhanu13@gmail.com

GST : 29BLYPD0958A2ZW

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ESS/QC/110V-Y3/2021-22-CB20

Date: 17-03-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	10-03-22	17-03-22	07	22500	365	16.22	16.15
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	355	15.78	

The result of the materials tested meets the standards and hence can be used for the work Muneshwara Layout Main Rd Ch: 30.00m to 60.00m.

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ESS/QC/110V-Y3/2021-22-CB3A

Date: 25-03-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	25-02-22	25-03-22	28	22500	525	23.33	22.96
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	510	22.67	

The result of the materials tested meets the standards and hence can be used for the work Avaikya Layout Cross Rd-5 Ch: 30.00m to 60.00m.

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ESS/QC/110V-Y3/2021-22-CB6A

Date: 26-03-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-02-22	26-03-22	28	22500	500	22.22	22.44
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

The result of the materials tested meets the standards and hence can be used for the work Avaikya Layout Cross Rd-8 Ch: 30.00m to 41.00m.

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ESS/QC/110V-Y3/2021-22-CB8A

Date: 28-03-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-02-22	28-03-22	28	22500	495	22.00	22.22
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	505	22.44	

The result of the materials tested meets the standards and hence can be used for the work Avaikya Layout Cross Rd-10 Ch: 21.50m to 48.00m .

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#6,1st Main, PavamanaNagara, Kothanurdinne MainRoad, JPNagar 8th Phase, Bangalore-560078 E-mail: essdhanu13@gmail.com

ESS/QC/110V-Y3/2021-22-CB1

Date: 11-03-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Samagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	04-03-22	11-03-22	07	22500	310	13.78	13.78
	002	"	"	"	"	320	14.22	
	003	"	"	"	"	300	13.33	

The result of the materials tested meets the standards and hence can be used for the work Ambavhavani Layout 4th Cross Rd.

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ESS/QC/110V-Y3/2021-22-CB4 **Date: 18-03-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-03-22	18-03-22	07	22500	320	14.22	13.93
	002	"	"	"	"	305	13.56	
	003	"	"	"	"	315	14.00	

The result of the materials tested meets the standards and hence can be used for the work Avaikya Layout Cross Rd-4 from end Ch: 22.20m to 52.80m.

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GST : 29BLYPD0958A2ZW

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ESS/QC/110V-Y3/2021-22-PB2

Date: 19-03-2022

TEST REPORT

Sub: Testing of Pre-cast Paver Blocks of thickness 60mm.
{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

Technical Reference*: IS 15658-2006.

PHYSICAL TESTS ON PRECAST PAVER BLOCKS.

1.COMPRESSIVE STRENGTH:

Sl No	Identification	Compressive Strength, N/mm^2	Average Compressive Strength, N/mm^2
1	001	41.85	41.98
2	002	42.15	
3	003	41.60	
4	004	42.35	

The result of the materials tested meets the standards and hence can be used for the work
Duo Marvel Ch: 0.00m to 8.80m

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ESS/QC/110V-Y3/2021-22-PB4

Date: 21-03-2022

TEST REPORT

Sub: Testing of Pre-cast Paver Blocks of thickness 60mm.
{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

Technical Reference*: IS 15658-2006.

PHYSICAL TESTS ON PRECAST PAVER BLOCKS.

1.COMPRESSIVE STRENGTH:

Sl No	Identification	Compressive Strength, N/mm^2	Average Compressive Strength, N/mm^2
1	001	41.35	41.93
2	002	42.10	
3	003	41.75	
4	004	42.55	

The result of the materials tested meets the standards and hence can be used for the work
Duo Marvel 7th Cross Rd Ch: 0.00m to 23.30m

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GST : 29BLYPD0958A2ZW

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ESS/QC/110V-Y3/2021-22-K3 Date: 10-03-2022

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.37	23.30	23.16	As per Cl. 6.2.2 of IS 456-2000, fcr=0.7√ fck
2	002	3.32	22.50		
3	003	3.40	23.70		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.68	4.77
2	002	4.79	
3	003	4.86	

The result of the materials tested meets the standards and hence can be used for the work Ambavhavani Layout Cross Rd-1 Ch: 0.00m to 16.40m.

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GST : 29BLYPD0958A2ZW

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ESS/QC/110V-Y3/2021-22-K5 Date: 14-03-2022

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.38	23.45	23.31	As per Cl 6.2.2 of IS 456-2000, fcr=0.7√ fck
2	002	3.34	22.90		
3	003	3.40	23.60		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.57	4.55
2	002	4.43	
3	003	4.65	

The result of the materials tested meets the standards and hence can be used for the work Ambavhavani Layout Cross Rd-5 Ch: 30.00m to 38.40m.

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GST : 29BLYPD0958A2ZW

ESS ESS BUILDERS

ESS/QC/110V-Y3/2021-22-K7 Date: 16-03-2022

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.38	23.45	**23.15**	As per Cl 6.2.2 of IS 456-2000, fcr=0.7√ fck
2	002	3.34	22.80		
3	003	3.37	23.20		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.36	**4.45**
2	002	4.48	
3	003	4.51	

The result of the materials tested meets the standards and hence can be used for the work Ambavhavani Layout 12th Cross Rd Ch: 30.00m to 60.00m.

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For ESS ESS BUILDERS

Authorized Signatory

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ESS/QC/110V-Y3/2021-22-K15 Date: 21-03-2022

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.38	23.40	23.06	As per Cl. 6.2.2 of IS 456-2000, fcr=0.7√ fck
2	002	3.33	22.65		
3	003	3.37	23.15		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.58	4.65
2	002	4.74	
3	003	4.63	

The result of the materials tested meets the standards and hence can be used for the work Avaikya Layout Cross Rd-3 Ch: 38.50m to 67.50m.

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Date: 04-03-2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
1.	Water absorption, %	0.42 %	Not more than 2 0 %
2.	Liquid Limit, %	18.39	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	6.46	----------
5.	Aggregate Impact Value, %	28.74	Not more than 40 00 %

The result of the materials tested meets the standards and hence can be used for the work Ambabhavani Nagar 3rd Cross Rd.

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ESS/QC/110V-Y3/2021-22-GSB2 Date: 05-03-2022

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

TEST RESULTS

1. **Gradation Test:**
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	94.65	80-100
26.50	87.35	55-90
9.50	53.15	35-65
4.75	45.80	25-50
2.36	17.25	10-20
0.85	8.90	2-10
0.425	4.05	0-5

The result of the materials tested meets the standards and hence can be used for the work Ambabhavani Nagar 5th Cross Rd Ch: 30.00m to 40.70m.

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Page No. 1/2,

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Date: 10-03-2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R.T H Specification, V Revision -2013.
1.	Water absorption, %	**0.41 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.63**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.76**	----------
5.	Aggregate Impact Value, %	**28.39**	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work Ambabhavani Nagar 6th Cross Rd Ch: 60.00m to 90.00m

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ಬಿ.ಡಿ.ಎ. ಬೆಂಗಳೂರು-106

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ESS/QC/110V-Y3/2021-22-W1

Date: 07-03-2022

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**98.15**	95-100
26.50	---	-
22.40	**71.25**	60-80
11.20	**53.40**	40-60
4.75	**32.15**	25-40
2.36	**23.60**	15-30
0.600	**18.35**	8-22
0.075	**3.85**	0-5

The result of the materials tested meets the standards and hence can be used for the work Sai Nagara 2nd Phase 11th Cross Rd Ch: 30.00m to 60.00m.

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ESS/QC/110V-Y3/2021-22-W2 Date: 07-03-2022

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03) }
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.35	95-100
26.50	---	-
22.40	72.15	60-80
11.20	56.10	40-60
4.75	33.45	25-40
2.36	22.70	15-30
0.600	19.05	8-22
0.075	3.65	0-5

The result of the materials tested meets the standards and hence can be used for the work Sai Nagara 2nd Phase 1st Cross Rd Ch: 30.00m to 32.00m.

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#6,1st Main, PavamanaNagara, Kothanurdinne MainRoad, JPNagar 8th Phase, Bangalore-560078 E-mail: essdhanu13@gmail.com

Date: 09-03-2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.32%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.56 %	Not more than 35.0 %
3.	Water absorption, %	0.42%	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work Avaikya Layout Cross Rd-11 Ch: 30.00m to 60.00m.

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Date: 10-03-2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.18 %	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.76 %	Not more than 35.0 %
3.	Water absorption, %	0.43 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work Avaikya Layout Cross Rd-12 Ch: 90.00m to 120.00m

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Date: 10-03-2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R.T H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.56%**	Not more than 30 00 %
2.	Combined Flakiness and Elongation index, %	**28.39%**	Not more than 35 0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work Avaikya Layout Cross Rd-13 Ch: 120.00m to 127.10m

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ESS/QC/110V-Y3/2021-22-W7 Date: 14-03-2022

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03) }
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	96.40	95-100
26.50	---	-
22.40	74.15	60-80
11.20	56.25	40-60
4.75	34.85	25-40
2.36	23.10	15-30
0.600	17.25	8-22
0.075	3.65	0-5

The result of the materials tested meets the standards and hence can be used for the work
Avaikya Layout Cross Rd-5 Ch: 60.00m to 90.00m

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Date: 15-03-2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.76%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.34%**	Not more than 35.0 %
3.	Water absorption, %	**0.41 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work work Avaikya Layout Cross Rd-8 Ch: 30.00m to 44.00m .

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Date: 16-03-2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.16%**	Not more than 30 00 %
2.	Combined Flakiness and Elongation index, %	**28.67%**	Not more than 35.0 %
3.	Water absorption, %	**0.43%**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work Avaikya Layout Cross Rd-7 Ch: 0.00m to 30.00m

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Date: 17-03-2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M o R T H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.19 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.34%**	Not more than 35.0 %
3.	Water absorption, %	**0.43 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work Avaikya Layout Cross Rd-10 Ch: 263.60m to 284.90m

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GST : 29BLYPD0958A2ZW

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ESS/QC/110V-Y3/2021-22-W12

Date: 18-03-2022

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03).}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.35	95-100
26.50	---	-
22.40	71.25	60-80
11.20	57.45	40-60
4.75	34.90	25-40
2.36	23.50	15-30
0.600	18.05	8-22
0.075	3.70	0-5

The result of the materials tested meets the standards and hence can be used for the work Avaikya Layout Cross Rd-13 Ch: 0.00m to 30.00m

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Date: 18-03-2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.86%**	Not more than 30 00 %
2.	Combined Flakiness and Elongation index, %	**28.51%**	Not more than 35 0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work Avaikya Layout Cross Rd-13 Ch: 0.00m to 30.00m

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GST : 29BLYPD0958A2ZW

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ESS/QC/110V-Y3/2021-22-W14

Date: 22-03-2022

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Restoration and Improvements of Balance roads of Ambabhavani layout, Ambabhavaninagara, SLN Enclave, Kere Anjeenappa layout, Sainagara Phase-2, Anugraha layout, Avikya layout and Surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-03) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopireddy, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**98.35**	95-100
26.50	**---**	-
22.40	**74.15**	60-80
11.20	**55.90**	40-60
4.75	**32.75**	25-40
2.36	**24.15**	15-30
0.600	**19.70**	8-22
0.075	**3.55**	0-5

The result of the materials tested meets the standards and hence can be used for the work Sai Nagara 2nd Phase 11th Cross Rd Ch: 0.00m to 30.00m.

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essdhanu13@gmail.com

Date: 22-03-2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.49%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.63%	Not more than 35.0 %
3.	Water absorption, %	0.42 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work Sai Nagara 2nd Phase 11th Cross Rd Ch: 0.00m to 30.00m.

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